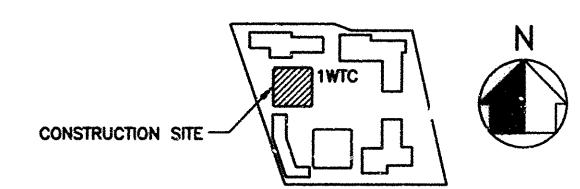


NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE DWG. E-1. FOR INSTALLATION DETAILS, SEE DWG. E-2. FOR WIRING DIAGRAMS, SEE DWG. E-3.
2. NOT USED
3. ONLY AFTER INSTALLED STROBES ARE TESTED AND OPERATIONAL, SHALL CONTRACTOR REMOVE EXISTING STROBE IN THE PRESENCE OF THE ENGINEER. PATCH WALL TO MATCH EXISTING WALL FINISH.
4. SINCE FIRE ALARM CIRCUIT LENGTH IS CRITICAL, ROUTING AND INSTALLATION OF ALL FIRE ALARM CIRCUITS SHALL BE AS SHOWN ON DRAWING.
5. DISCONNECT AND ABANDON EXISTING STROBE CIRCUITS IN CEILING. TAPE ENDS OF ABANDONED CONDUCTORS AND TAG AS ABANDONED. THIS WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.

STROBE CIRCUIT/LOADING TABLE

STROBE TYPE AND RATING	TYPE	15cd	30cd	75cd	110cd	CURRENT PER CIRCUIT (AMPS.)	CIRCUIT LENGTH (ft.)
QUANTITY OF STROBES PER CIRCUIT	STR-A	6	1	1	0	0.643	309
	STR-B	1	0	2	1	0.602	283
	STR-C	8	3	1	0	0.969	442
	STR-D	6	1	1	1	0.852	299
	STR-E	4	1	1	?	0.935	375
	STR-F	5	1	2	0	0.745	291
GRAND TOTAL						4.746	1999



KEY PLAN

ENGINEERING DEPARTMENT
DESIGN DIVISION
WORLD TRADE CENTER
88th FLOOR
STROBE
INSTALLATION AND
REMOVAL PLAN

ELECTRICAL
Title
**FIRE ALARM SYSTEM
DEVICE UPGRADE
PHASE III
1 WORLD TRADE CENTER
CONTRACT NO. 3**
**88th FLOOR
STROBE
INSTALLATION AND
REMOVAL PLAN**

This drawing subject to conditions in Contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

S. TELDSTEIN R. DUKESHIRE A.S.
Designed by Drawn by Checked by

AUGUST 9, 1999
Date

WTC-861.176 E-088-4
Contract Number Drawing Number